

INVITATION

Ladies and Gentlemen,

Fraunhofer (located in Munich, Germany) and its Institute for Manufacturing Engineering and Automation IPA (located in Stuttgart, Germany) are pleased to announce the launch of the new "Fraunhofer Office for Process Engineering of Functional Materials and Robotics" as technical addition to the acting Fraunhofer Representative Office Japan (located in Tokyo) in March 2011 in Osaka.

Prior to the official opening of the office, we would like to invite you our opening seminar on February 7th (Mo.) as below.

We would be very delighted if you could honor us with your company at our seminar.

Best regards

P.S. Please confirm your participation by February 1st (Tue.) with the attached response sheet or online registration.
Thank you!

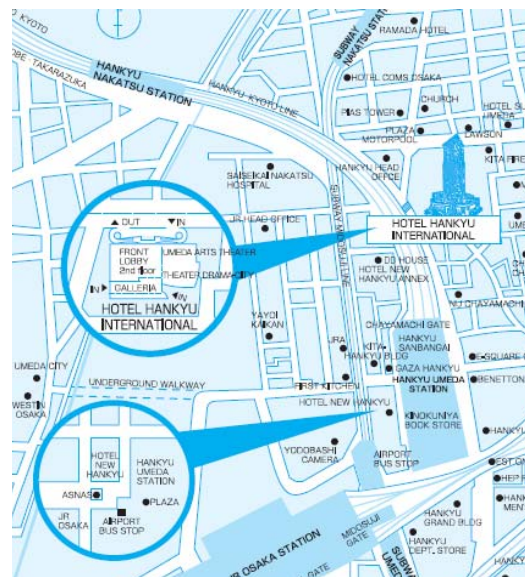
Date: February 7th, 2011 (Mo.) 14:00-20:00

Venue: Hotel Hanky International
19-19 Chaya-machi, Kita-ku, Osaka

Phone: 06-6377-2100

Access:

- 3 min. walk from Hankyu "Umeda Station", „Chaya-machi“ Exit
- 10 min. walk from JR "Osaka Station" East Exit
- 3 min. walk from „Nakatsu Station“ (Midosuji-Line) Exit 4



Dear Madams and Sirs,

The positive future of an economy depends on its global competitiveness, which is a result of its demographic situation, economic circumstances and of the technical capabilities. In addition, customer expectations on a product or service are continuously getting demanding and forces companies to constant cost reduction and new product features. Besides reasonable price and precise marketing communication, successful products require today a high degree of system integration and multi functionality, as well as efficient, eco friendly and extreme reliable production methods. Due to their tremendous versatility smart materials, such as carbon nanotubes, graphene or nano Silver are considered to boost the development of new innovative products in traditional markets and of course for green and medicine technology. However, only a few of such products are established in the market today. The major reason is a lack of appropriate production processes which are meeting the needs of modern companies.

Fraunhofer IPA is willed take this challenge and deploy the full potential of smart materials.

Fraunhofer and Fraunhofer IPA decided to install the "Fraunhofer Office for Process Engineering of Functional Materials and Robotics" in Osaka city as technical addition to the acting Fraunhofer Representative Office Japan. Here we can exchange ideas and needs, understand and set market trends.

But probably the most important aspect, we like to install a place where the leading experts of Japan can meet their colleagues from Germany and shape the future- together.

You are cordially invited to participate in the our opening seminar, listening to interesting talks and be part of this strategic alliance

Sincerely

Director, Fraunhofer Institute for Manufacturing Engineering and Automation IPA
Professor Engelbert Westkämper



Fraunhofer Office for Process Engineering of Functional Materials and Robotics Opening Seminar

Date & Time: February 7th, 2011 (Mo.) 14:00-20:00

Venue: Hotel Hankyu International (19-19 Chaya-machi, Kita-ku, Osaka)

Hosted by: Fraunhofer Institute for Manufacturing Engineering and Automation IPA, Osaka City, IBPC Osaka Investment Promotion Center

Supported by: Embassy of the Federal Republic of Germany, German Consulate General Osaka-Kobe, Federal Ministry of Education and Research (BMBF, tbc.), Baden-Wuerttemberg (tbc.), German Chamber of Commerce and Industry in Japan (GCCIJ), German Research and Innovation Forum (DWIH) Tokyo, Kansai Bureau of Economy, Trade and Industry (METI Kansai), Osaka Prefectural Government, Kansai Economic Federation (Kankeiren), Osaka Chamber of Commerce and Industry, Japan External Trade Organization (JETRO) Osaka, National Institute of Advanced Industrial Science and Technology (AIST) Kansai Center, Osaka Municipal Technical Research Institute, Fraunhofer Representative Office Japan

<Program> with Japanese-English simultaneous translation

【Seminar】 (at „Gekka“, 4th Floor)

14:00-14:10

Welcome

Mr. Kunio HIRAMATSU, Mayor of Osaka City

Prof. Dr. Engelbert WESTKÄMPER, Director, Fraunhofer Institute for Manufacturing Engineering and Automation IPA

14:10-14:20

Greetings

Dr. Alexander OLBRICH, Consul General, The German Consulate General Osaka-Kobe

14:20-15:00

Introduction of Fraunhofer IPA and Nanocarbon as a Field for Future Cooperation

Mr. Ivica KOLARIC, Head of Department „Process Engineering of Functional Materials“, Fraunhofer IPA / Head of Fraunhofer Office for Process Engineering of Functional Materials and Robotics

15:00-15:40

Glass Facades, the Powerplants of Tomorrow – Example of Joint Research with Fraunhofer

Mr. Odilo REUTTER, Architect, Reutter Architekten BDA

15:40-15:55

Coffee Break

15:55-16:35

Carbon Nano Materials

Prof. Siegmund ROTH, Max-Planck-Institute for Solid-State Physics; Professor, School of Electrical Engineering, WCU Flexible Nanosystems, Korea University; CEO, Sineurop Nanotech GmbH

16:35-17:00

How Cool CNT Is! - Seeking for Tie with Fraunhofer

Dr. Yuzo SUMIDA, President, SUMITA Nanotechnologies, Co., Ltd.

17:00-17:25

Nanoparticle Technology for Printed Electronics

Dr. Masami NAKAMOTO, Director, Research Charge, Osaka Municipal Technical Research Institute

17:25-17:50

Toward the Japanese-German Collaboration on EAP Research

Dr. Takahisa TAGUCHI, Director, AIST Kansai Center

17:50

Closing

Dr. Lorenz GRANRATH, Representative, Fraunhofer Representative Office Japan

【Reception】 18:00-20:00 (at „Kafuu“, 4th Floor)

Fraunhofer Office for Process Engineering of Functional Materials and Robotics

Opening Seminar

Response Sheet

Please confirm your attendance by **February 1st, 2011 (Tue.)**

at <http://www.investosaka.jp/event/form/110119.cgi> online or

to Ms. Tomita at Fraunhofer: Fax **06 6447 2011** or E-Mail: **tomita@fraunhofer.jp** or

Ms. Tamura at IBPC Osaka: Fax **06 6615 5518** or E-Mail: **tamura@ibpcosaka.or.jp**

Fraunhofer Office for Process Engineering of Functional Materials and Robotics
Opening Seminar

on February 7th, 2011, 14:00-20:00 (at Hotel Hankyu International)

- I will attend the seminar.
- I will also attend the reception.
- I will not be able to attend.

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Company:

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Department:

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Job Title:

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Name: Dr./Mr./Ms.

.....
Phone:

Fax :

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E-Mail :

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* Your personal data will be used for the purpose of providing information on events and news by Fraunhofer IPA, City of Osaka as well as IBPC Osaka. We will not distribute it to any third party. Your personal information will be kept under our strict control and management.

I need no further information on events and news from Fraunhofer IPA, City of Osaka and IBPC Osaka.